

PATENT ABSTRACTS OF JAPAN

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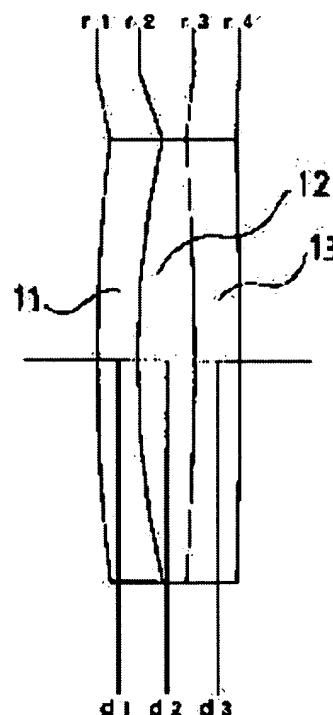
(54) ACHROMATIC LENS SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain an achromatic lens system which does not use a fluorite being a lens system which excellently compensates chromatic aberration by near infrared rays especially by constituting the lens system of a negative single lens, a positive single lens and a negative single lens in order from an object side and making it satisfy a specified condition.

SOLUTION: This lens system is constituted of a 1st lens 11 being a negative meniscus single lens which is convex to an object side, a 2nd lens 12 being a biconvex single lens and a 3rd lens 13 being a negative meniscus single lens which is convex to an image side in order from the object side and all the lenses are stuck. In the

lens system, an expression $\left| \frac{\theta_{pt}}{\theta_{nt}} \right| < 0.02$ is satisfied. In the expression, θ_{pt} is the partial dispersion ratio of the positive single lens on a t-line expressed by $(n_c - n_t)/(n_F - n_C)$ and θ_{nt} is the mean value of the partial dispersion ratio of the negative single lens on the t-line expressed by $(n_c - n_t)/(n_F - n_C)$. The n_c is a refractive index on a C-line, the n_t is a refractive index on the t-line, the n_F is a refractive index on an F-line and the n_g is a refractive index on a g-line.



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